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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/721,383	11/26/2003	Kunihisa Obi	009523-0307056	6013
	7590 05/07/200 WINTHROP SHAW PI	EXAMINER		
P.O. BOX 10500			MAY, ROBERT J	
MCLEAN, VA 22102			ART UNIT	PAPER NUMBER
			2885	
			MAIL DATE	DELIVERY MODE
			05/07/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/721,383	OBI, KUNIHISA			
Office Action Summary	Examiner	Art Unit			
	Robert May	2885			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period v. Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) ☐ Responsive to communication(s) filed on 30 M 2a) ☐ This action is FINAL. 2b) ☐ This 3) ☐ Since this application is in condition for allower closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) Claim(s) 2-4,6 and 7 is/are pending in the appl 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 2-4,6 and 7 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers 9) The specification is objected to by the Examine 10) The drawing(s) filed on 26 November 2003 is/a Applicant may not request that any objection to the	vn from consideration. r election requirement. r. re: a)⊠ accepted or b)□ object	•			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail December 1.5 Interview Summary Paper No(s)/Mail December 1.5 Interview Summary Other:				

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on March 2, 2007 has been entered.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kohara (6,883,938) in view of Itoi.

Kohara discloses in Figure 1, an illumination apparatus for an optical instrument (studio lighting systems Col 1, lines 5-7, which is read to include a projector as established as being an optical instrument on page one of the specification) comprising a illumination means 8 for outputting light, an optical element 14 positioned on the light path of the illuminating light outputted from the illumination means and also discloses that the optical element may contain organic and inorganic material (organic and

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inorganic fillers for enhancing heat resistance (Col 18, lines 50-67-Col 19, lines 1-16, which can be used alone or in combinations of two or more types Col 19, lines 46-47). Kohara also discloses the optical element (including a organic component) having a glass temperature in excess of 150 degrees C (90-300 deg C, Col 15, lines 7-11).

Kohara fails to disclose the organic/inorganic components as being mixed in complex with each other.

Itoi discloses inorganic and organic components mixed in complex with each other (organic peroxide cross linking agent and an inorganic fine powder) to improve scuff resistance (Abstract- Purpose). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the optical element of Kohara with the organic and inorganic components mixed in complex with each other to improve scuff resistance as taught by Itoi.

Regarding Claim 7, Kohara fails to disclose the composite materials claimed.

Itoi discloses the organic/inorganic composite material made up of an IPN structure wherein the organic components and inorganic components are intervolved and interpenetrated into each other by the mixing step which effects the polymerization of the material which means the mixture takes place on a molecular level for enhancing the scuff resistance of a lens (Abstract). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the composite material Ohsato with the IPN structure mixed at a molecular level of Itoi for enhancing the scuff resistance of the lens.

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Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kohara and Itoi as applied to claim 2 above, and further in view of Fujimoto. Kohara fails to disclose the illumination system as being used for a microscope, however Fujimoto discloses an illumination system being used for a microscope (abstract) for illuminating the viewing field. Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to use the illumination apparatus of Kohara for a microscope for illuminating the viewing field.

Claims 3-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kohara in view of Itoi and Fukuzawa (JP 2002114945A).

Kohara fails to disclose the organic/inorganic components as being mixed in complex with each other.

Itoi discloses inorganic and organic components mixed in complex with each other (organic peroxide cross linking agent and an inorganic fine powder) to improve scuff resistance (Abstract- Purpose). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the optical element of Kohara with the organic and inorganic components mixed in complex with each other to improve scuff resistance as taught by Itoi.

Kohara fails to disclose the composite material containing one of the components represented by the formula: M1(OR4)n.

Fukuzawa discloses a composite material comprising an inorganic and an organic material comprising a material represented by an equivalent formula

(M1(OR2)m) for providing a coating composition in order to form a light diffusion film that coats a surface. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the optical element of Kohara with the organic/inorganic composite material of Fukuzawa for forming a light diffusion film on the optical element of Kohara.

Regarding Claim 4, Kohara also discloses the optical element (including a organic component) having a glass temperature in excess of 150 degrees C (90-300 deg C, Col 15, lines 7-11).

Response to Arguments

Applicant's arguments with respect to claims 2 and 3 have been considered but are most in view of the new ground of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert May whose telephone number is (571) 272-5919. The examiner can normally be reached between 9 am– 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jong (James) Lee can be reached on (571) 272-7044. The fax number for the organization where this application or proceeding is assigned is (571) 273-8300 for all communications.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval PAIR system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

RM

5/1/07

PRIMARY EXAMINER